

APPENDIX

802.1X Port-Based Authentication

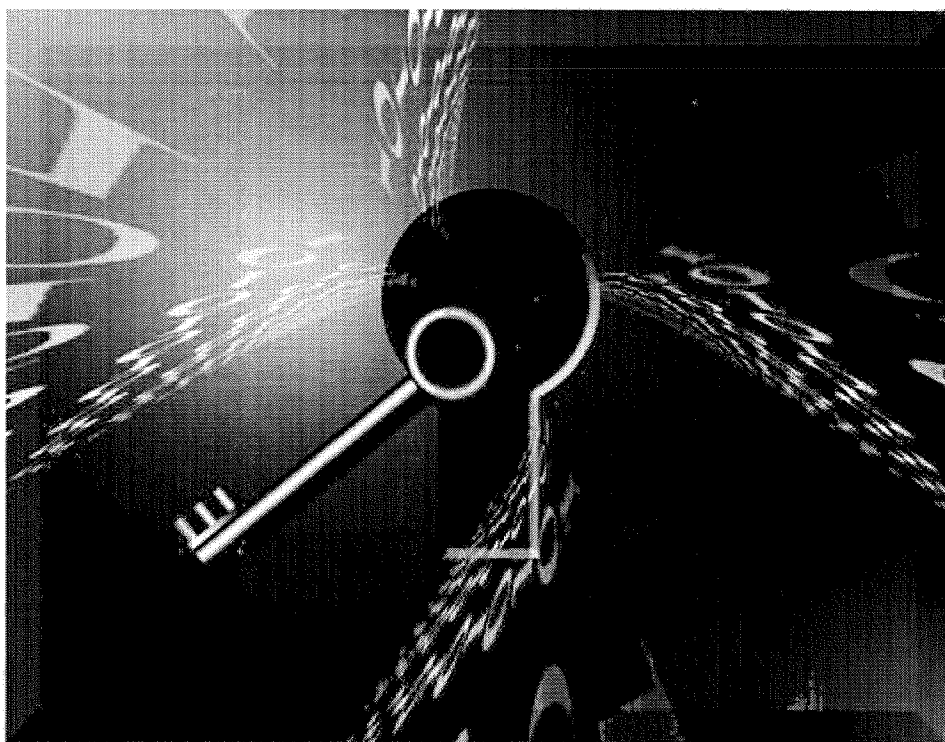


Table 2.14 Cisco MIB Elements

<i>Element</i>	<i>Configurable</i>
CpaeMultipleHost	Yes
CpaePortMode	Yes
CpaeGuestVlanId	Yes
CpaeInGuestVlan	No
cpaeShutdownTimeoutEnabled	Yes
cpaeGuestVlanNumber	Yes
cpaeRadiusAccountingEnabled	Yes
CpaeUserGroupTable	No
CpaeUserGroupEntry	No
CpaeUserGroupName	No
cpaeUserGroupUserIndex	No
cpaeUserGroupUserName	No
cpaeUserGroupUserAddrType	No
cpaeUserGroupUserAddr	No
cpaeUserGroupUserInterface	No
cpaeUserGroupUserVlan	No

The specific elements that are of significant interest in the Cisco MIB are discussed below.

cpaeMultipleHost—This element indicates whether or not more than one Supplicant is allowed to connect to a specific port. This element does not indicate how many hosts may connect.

cpaePortMode—This element is the one that identifies how a port will allow a number of hosts to connect to a single port. There are three possible values: single host, multi-host, and multi-host with multiple authentications. Single host mode is what the name implies—only one mac-address is allowed on the port. Multi-host allows more than one host on the port. The port assumes the VLAN of the last Supplicant with a successful authentication. Multi-host with multiple authentications interacts with port security features to restrict host connectivity.

cpaeGuestVlanId—This element identifies the VLANID associated with a port that has a Guest VLAN configured. The configuration of the Guest VLAN for IOS and CATOS is discussed in a later section.

cpaeInGuestVlan—This element indicates whether or not the port is in Guest VLAN mode. If the device housing the port allows multiple authentications, or multiple Guest VLANs, then this element has no meaning.

That is a relatively brief discussion of specific management available in 802.1X. The only third party MIB presented is the Cisco-PAE-MIB. If other vendor equipment is implemented, then a MIB specific to that implementation should be available and have similar elements.